

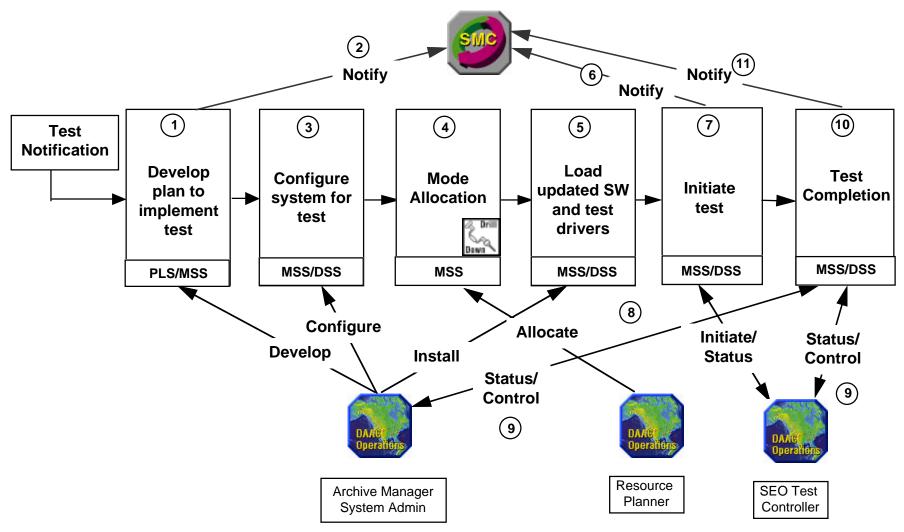
Mode Management Drill Down Alex Kirn

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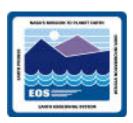
30 October 1995

Parallel Test & Operations Functional Flow



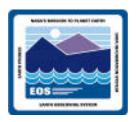


Mode Management Overview



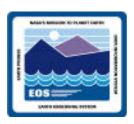
- Scope includes:
 - Procedural Activities: Planning and Configuration
 - Run-time Activities: Execution, Monitoring, and Control
- Software Modes Production, Testing, Training, . . .
- Enables simultaneous execution of different software modes on the same hardware
- Ensures Data Integrity and Process Distinction and Separation

Mode Management Design Drivers



- ECS shall support simultaneous production and testing modes
- ECS shall support sustaining engineering activities
- ECS shall be capable of monitoring each mode of operation

Mode Management Design



General:

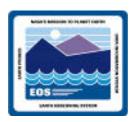
- Modes are managed from within HP OpenView
- No more than one Production Mode active at any given time
- Multiple Test and Training Modes
- Once an application has been initiated within a given mode it remains in that mode for the life of the process
- Modes are configuration controlled
- Support data sets are pre-partitioned based on mode identifier
- Infrastructure-based applications are mode independent
 - HP OpenView
 - Agents
 - OODCE

Part of HP OpenView Session #1

Part of HP OpenView Session #2



Mode Management Design (Continued)



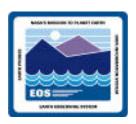
ECS Developed Applications

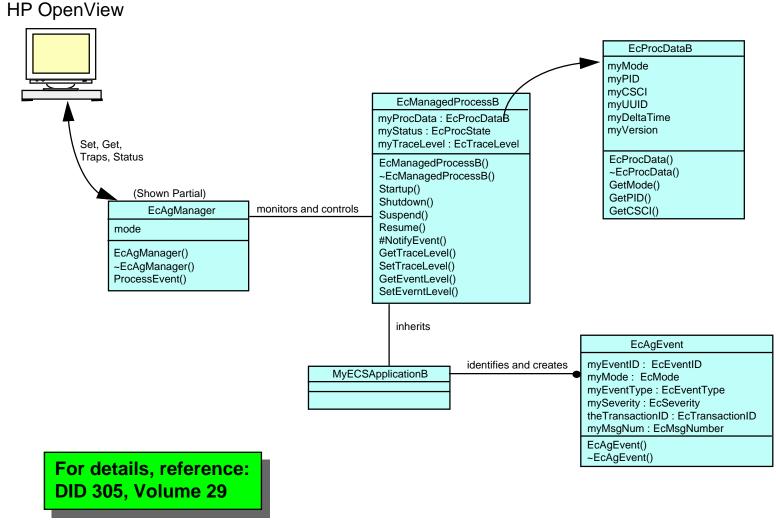
- Mode Management capabilities will be incorporated as part of a managed process framework
- Transparent to the application developer

COTS Applications

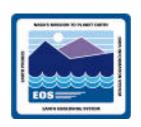
- Some will be mode independent
- Custom developed wrappers
- Modify Configuration files
- Some may not be capable of being mode managed

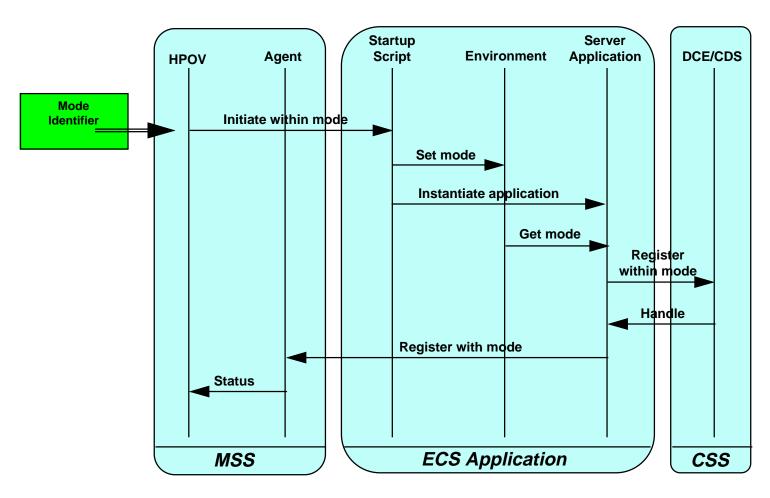
Mode Management Object Model



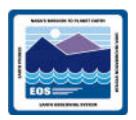


Mode Management Event Trace (High Level)





Current Status



• COTS

- Evaluating TIVOLI Management Environment (TME) for system and process level Mode Management capabilities

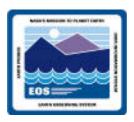
Prototypes

- EP7 - Mode Management capabilities

Next Steps

- Evaluate all currently selected ECS COTS for Mode Management compliance
- Evaluate Mode Management support for SSI&T process
- Evaluate Mode Management migration to CORBA

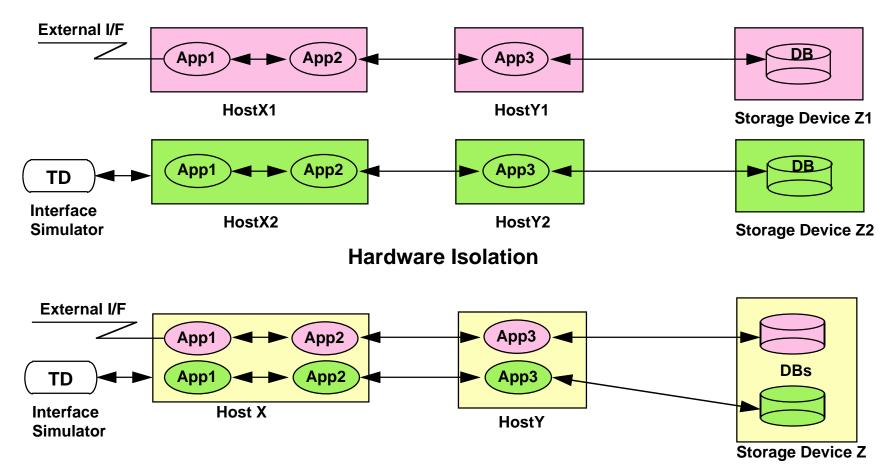
Summary



- Mode Management enables the simultaneous execution of multiple system activities
- No limitation on the number of concurrently active modes
- Mode initiation is under configuration control
- Mode Management design validation via prototyping

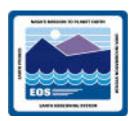
HW/SW Configurations

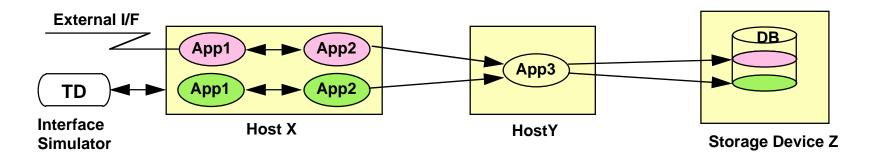




Software and Database Isolation (Shared Hardware)

HW/SW Configurations





Partial Software Isolation with Data Isolation in Shared Database

